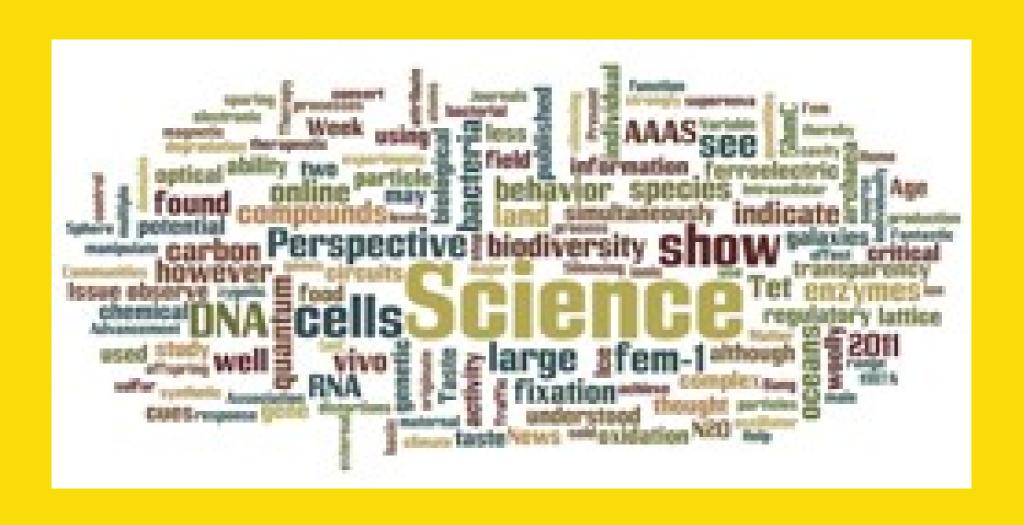
Art of Science Communication

Dr T V Venkateswaran Vigyan Prasar New Delhi tvv123@gmail.com

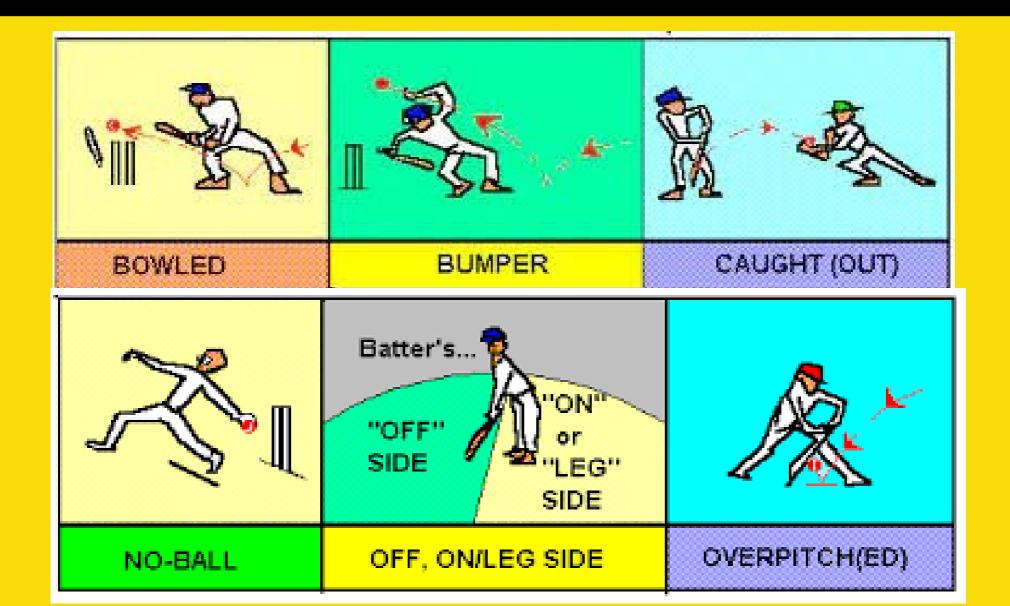
Are the technical words the hurdle?

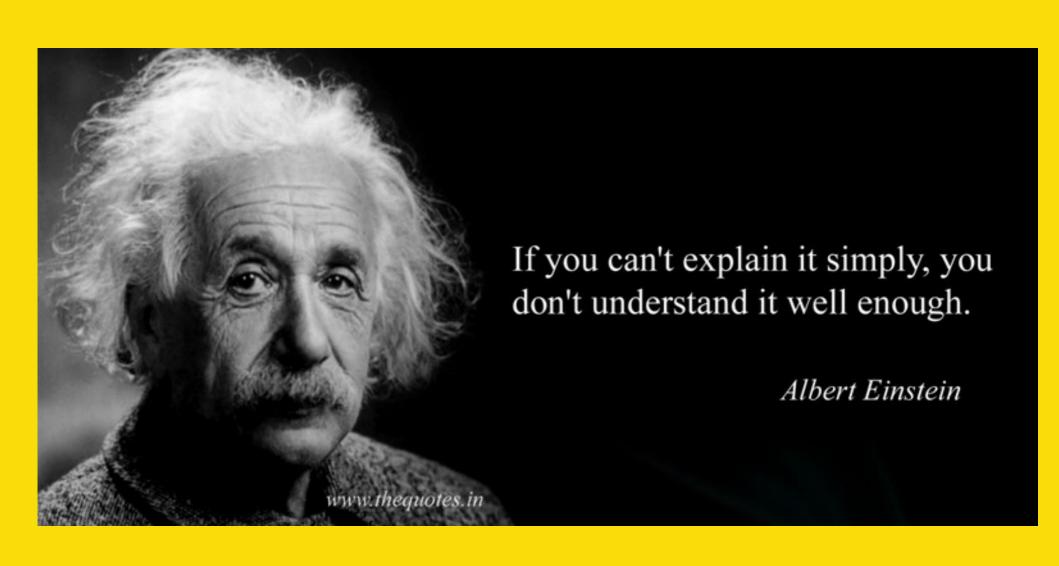


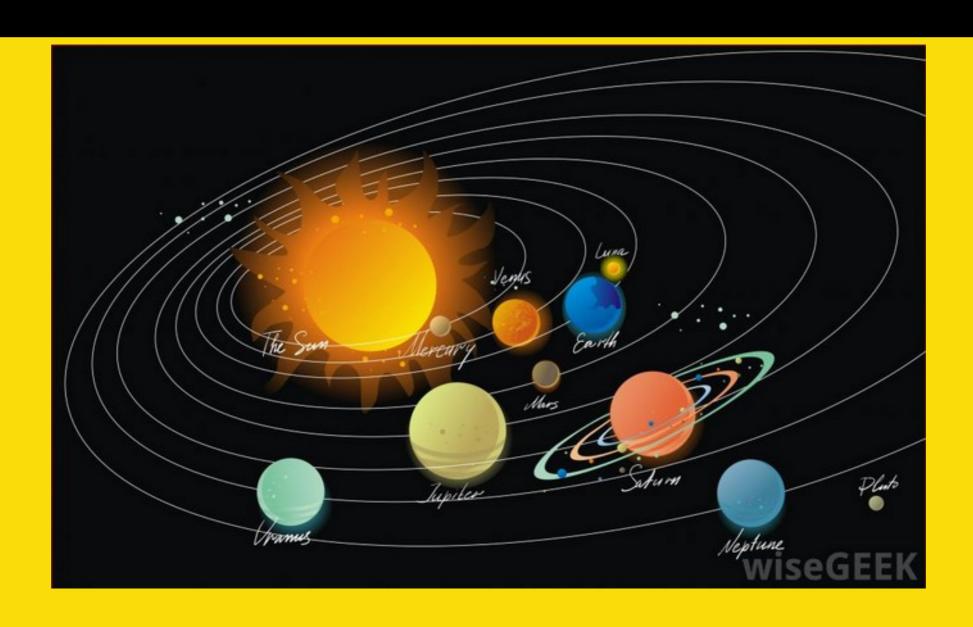
Esoteric jargons

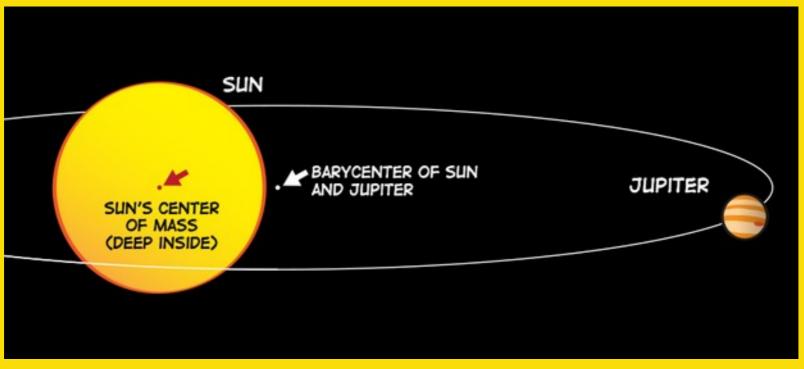


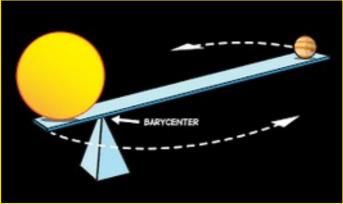
Really?

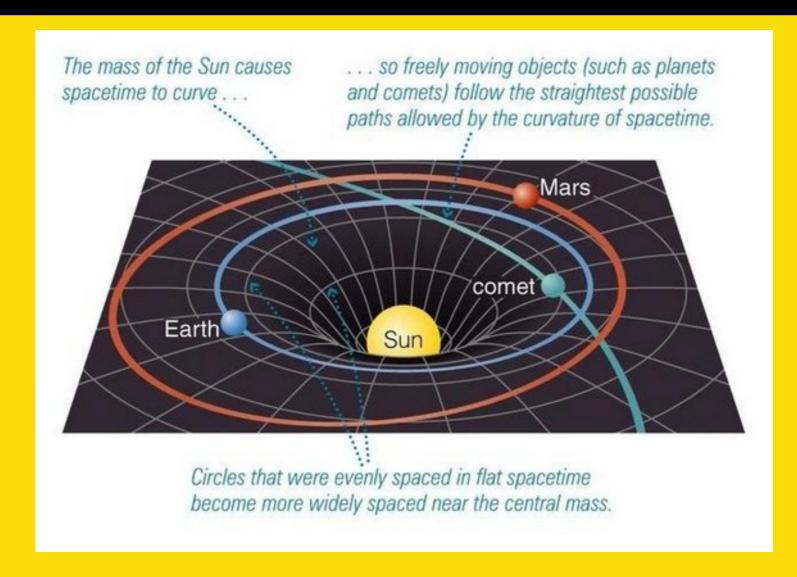


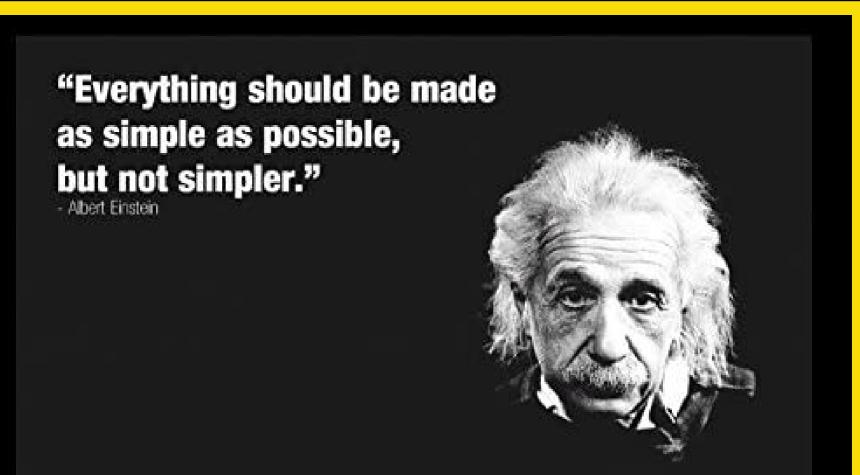








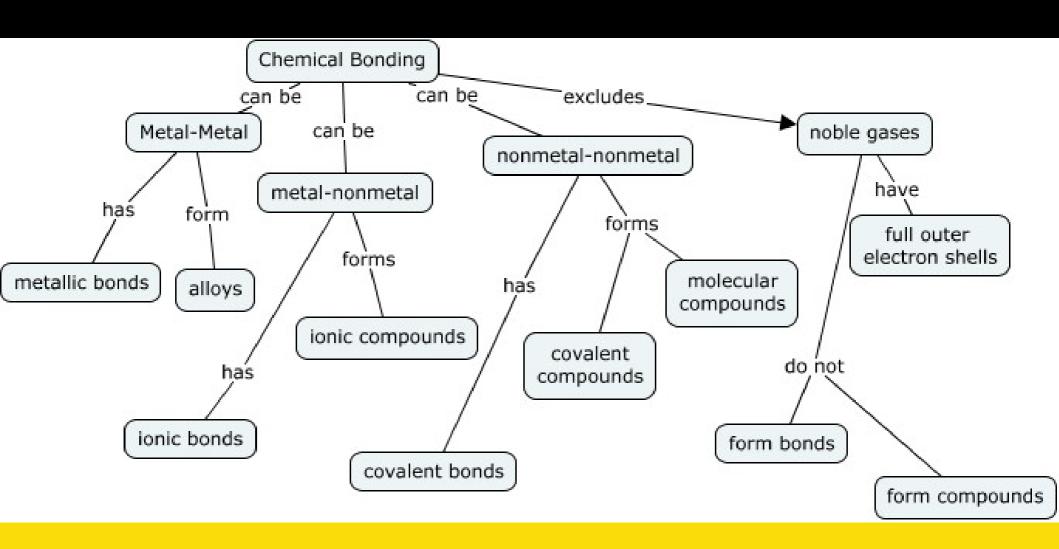




World of Science

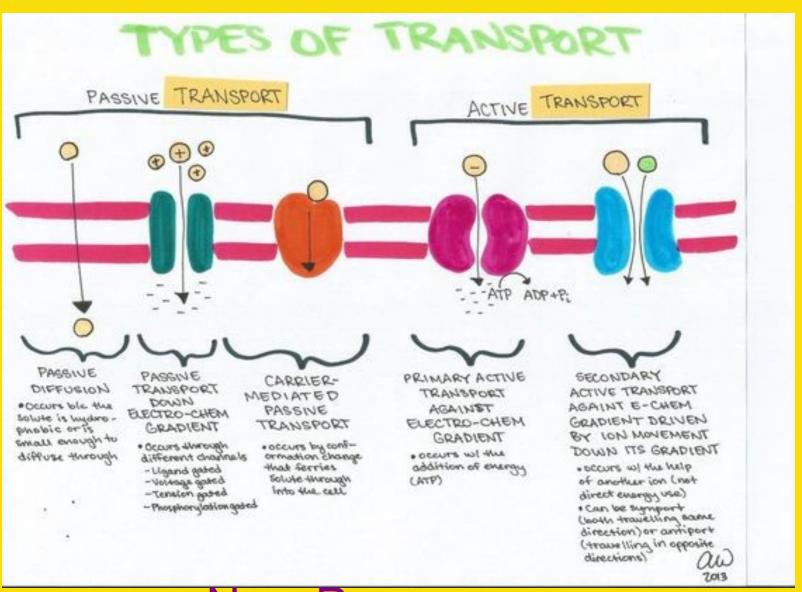
New reality domains
Counter intuitive
Abstract and concrete
Incongruous
Organized skepticism

New reality domains-Entities



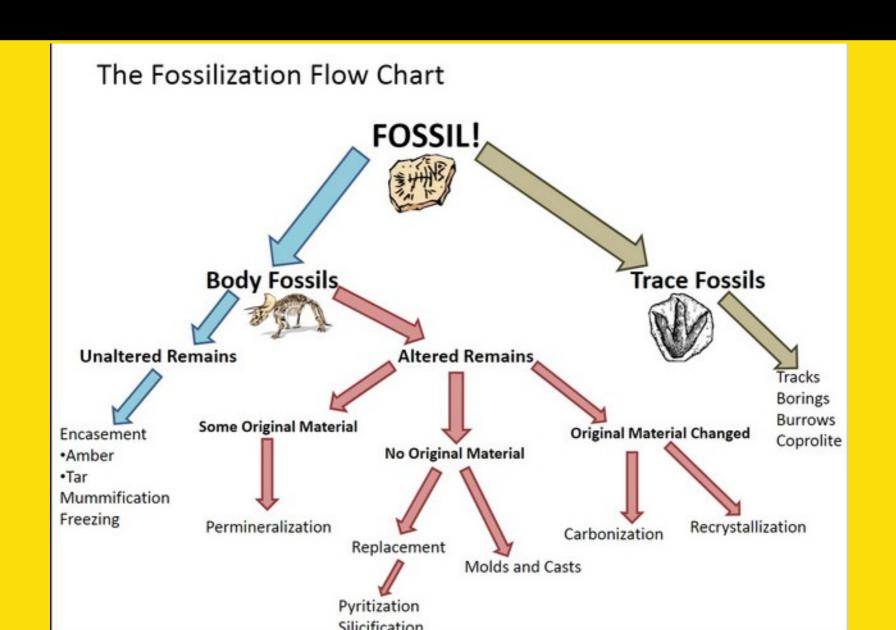
New Entities

New reality domains- processes



New Processes

New reality domains- processes



New reality domains-justification

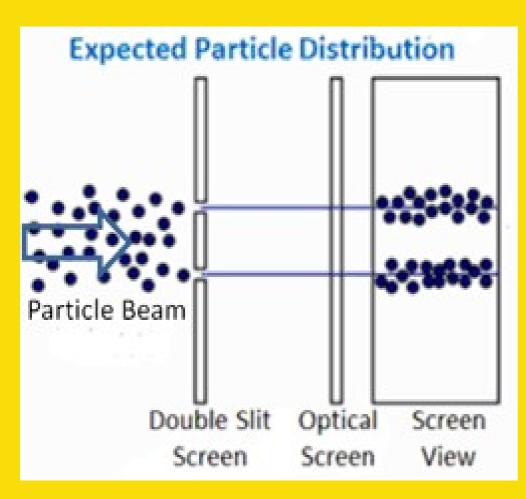
New Justification

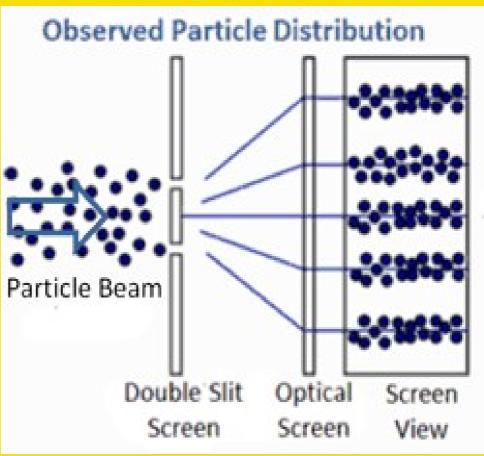


New reality domains

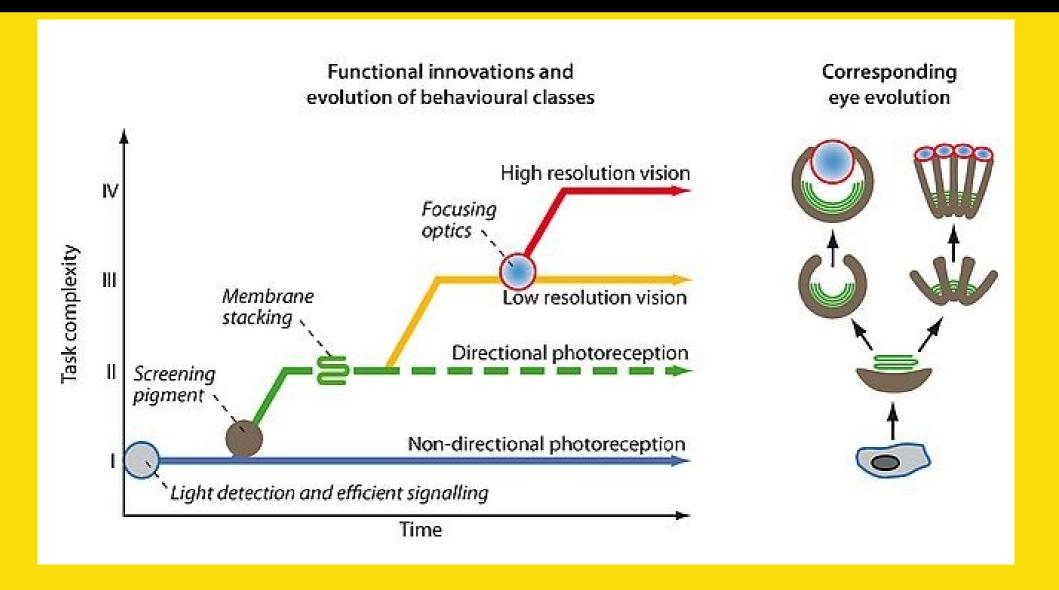
Processes- Cell transport,
DNA code, petrification
Justification- not of ball
moving, but stopping!

Counter Intuitive



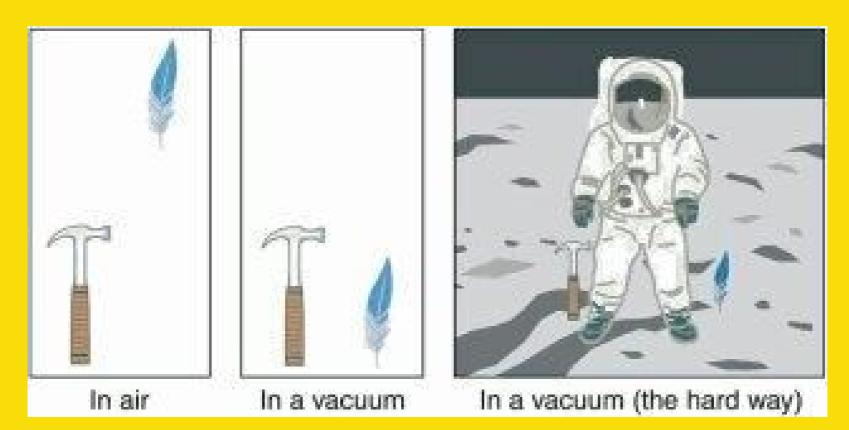


Counter Intuitive

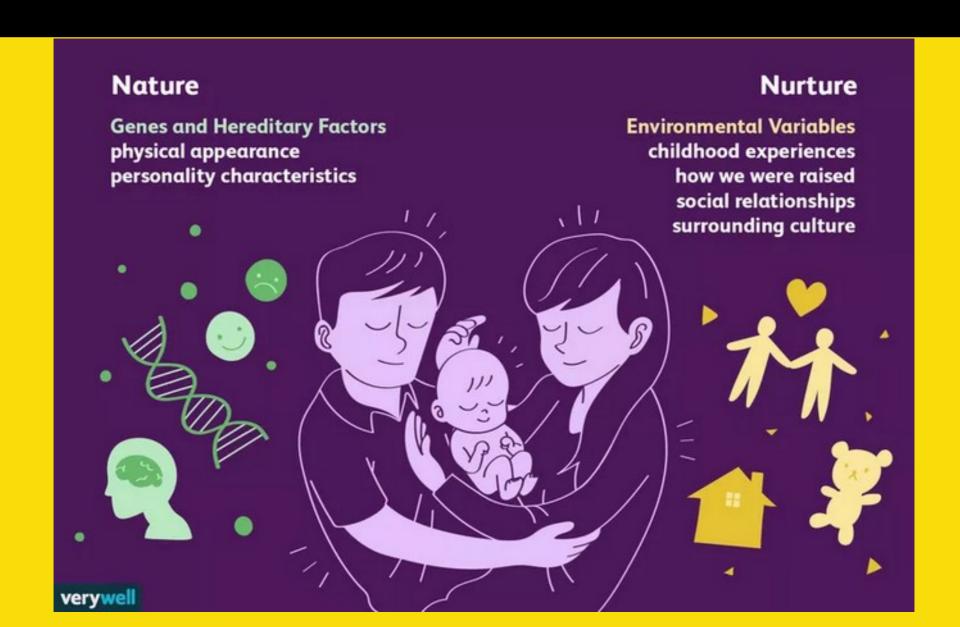


Abstract and Concrete

Experience is bisected Explanation is combination



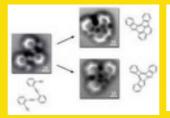
Abstract and Concrete

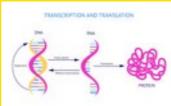


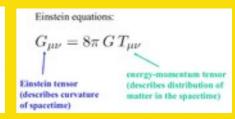
Incongruous





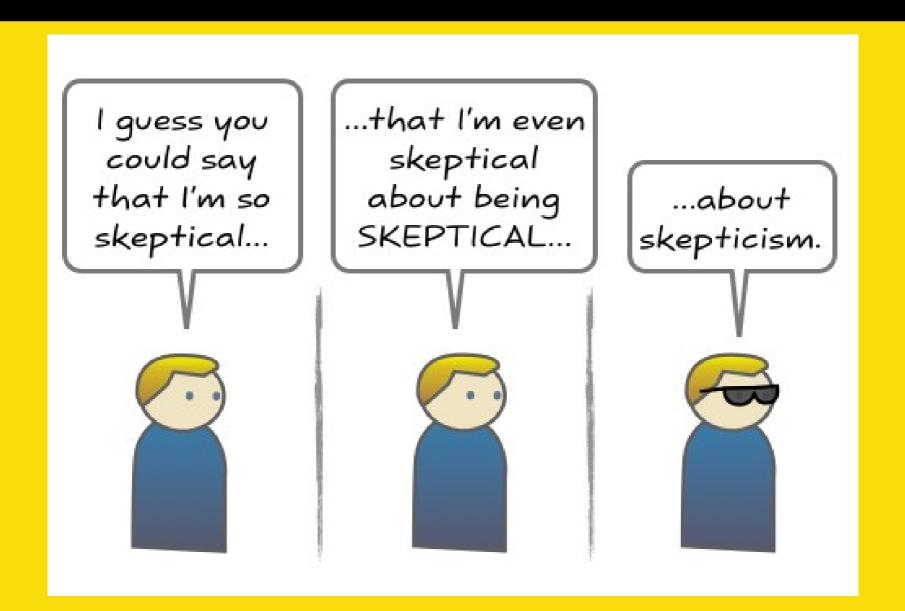




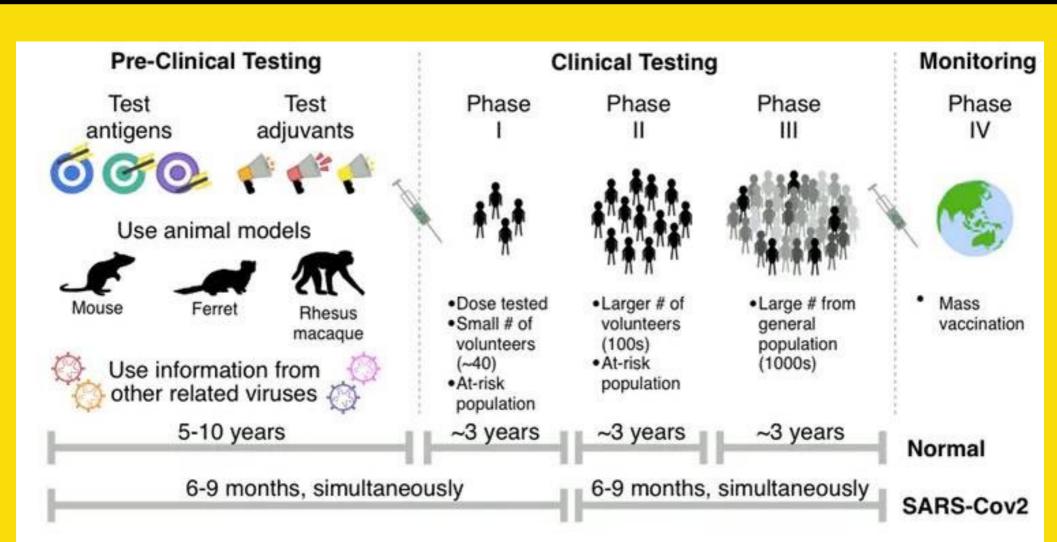


too abstract (physics)
too theoretical (mathematics),
too remote in time (prehistory)
place (cosmology),
too infinitesimal (molecular biology)
inaccessible (genetic therapy)

Organized scepticism



Organized scepticism



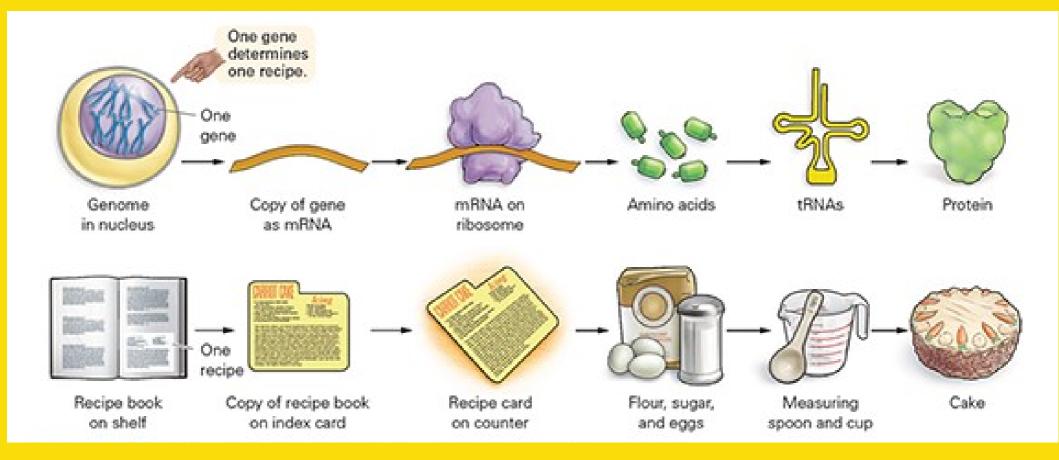
Three golden rules of science communication

From known to unknown From simple to complex From particular to general

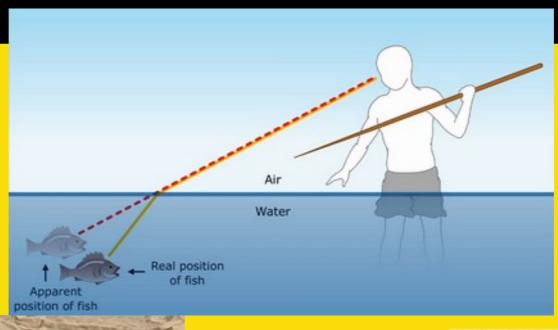
Making unfamiliar, familiar

Analogy- Cook Book of life
Imagestic- Immune war
Illustrations/Examples-Distance of
Stars
Thought experiments -Hilbert hotel

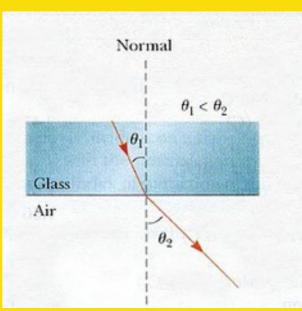
Analogy



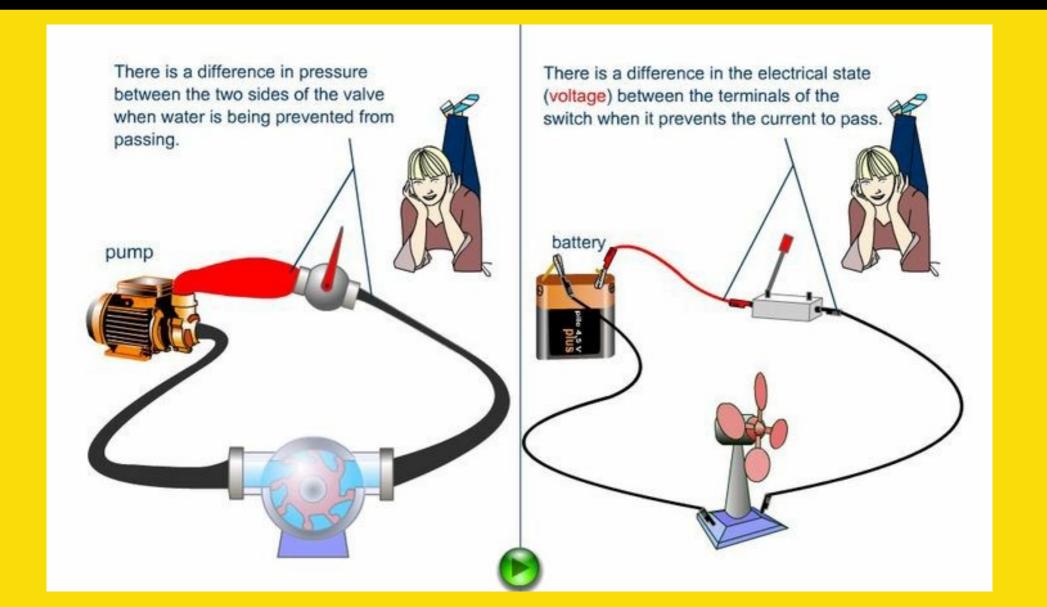
Analogy



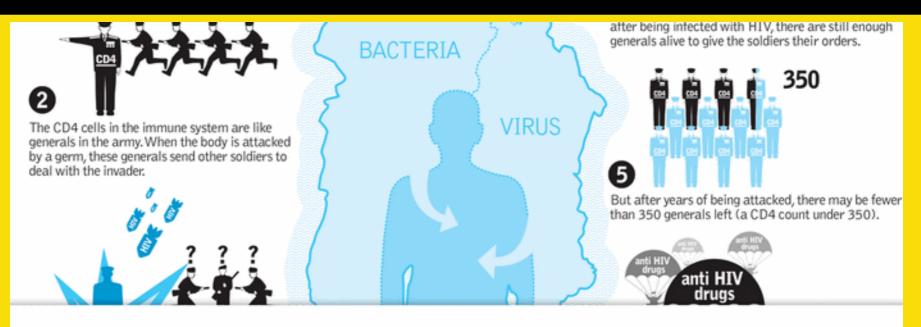




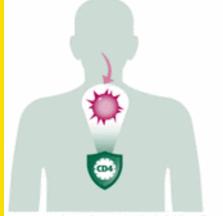
Analogy



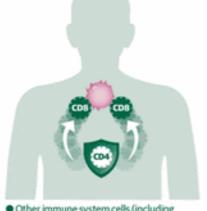
Imagestic



When the immune system is strong, you don't get ill



 Once a pathogen has got inside the body, cells in the immune system (called CD4 cells) recognise it as something that doesn't belong there.



 Other immune system cells (including CD8 cells) are sent to attack and destroy the pathogen.

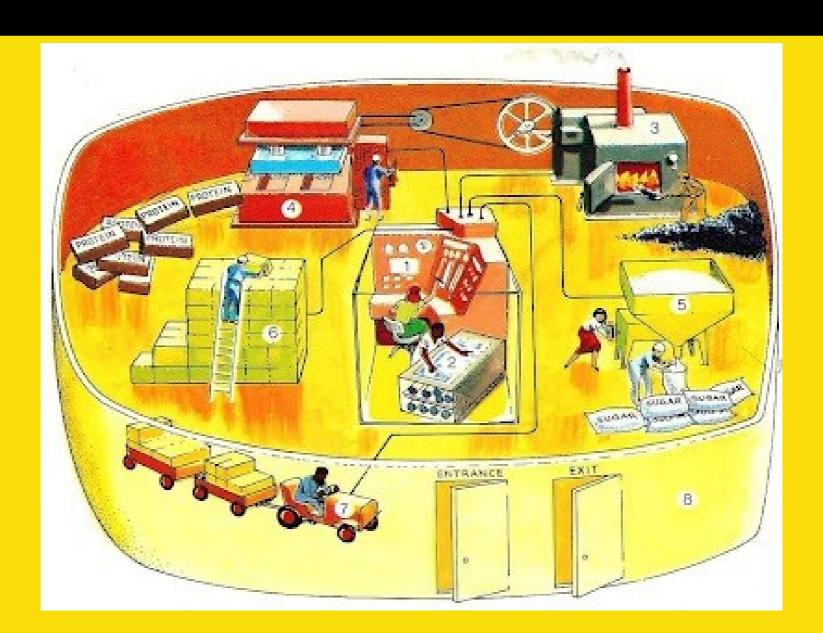
: If the immune system has been made weak by HIV, you



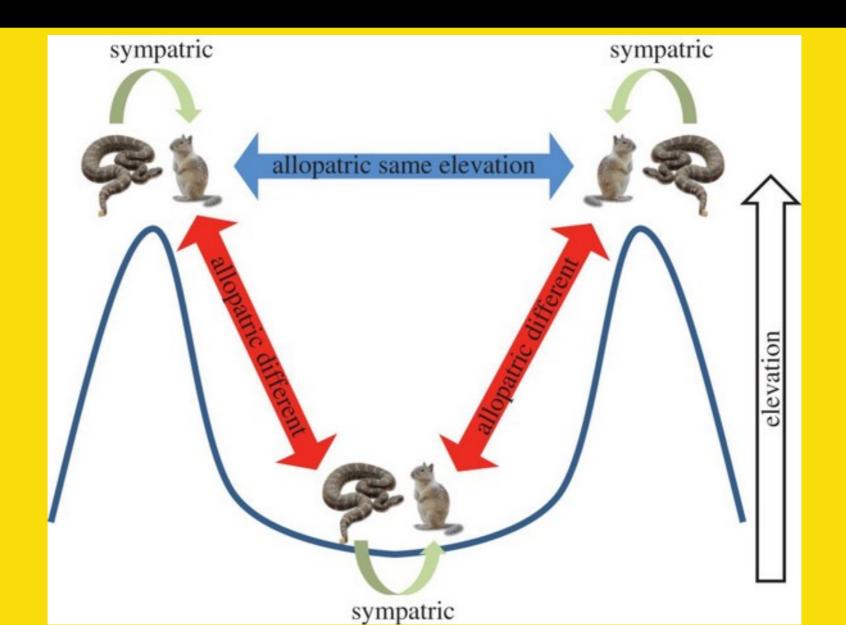


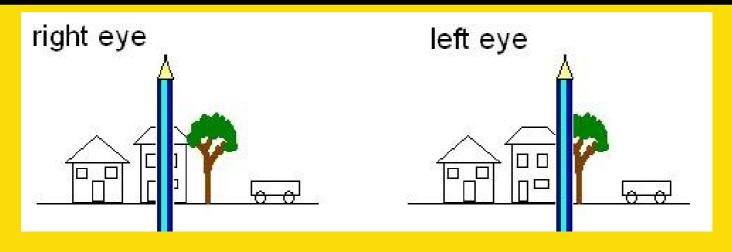
 When another pathogen gets inside t body, the immune system doesn't kni how to fight it.

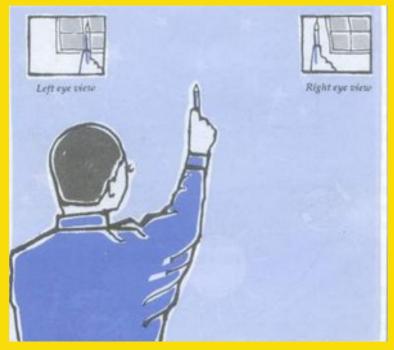
Imagestic



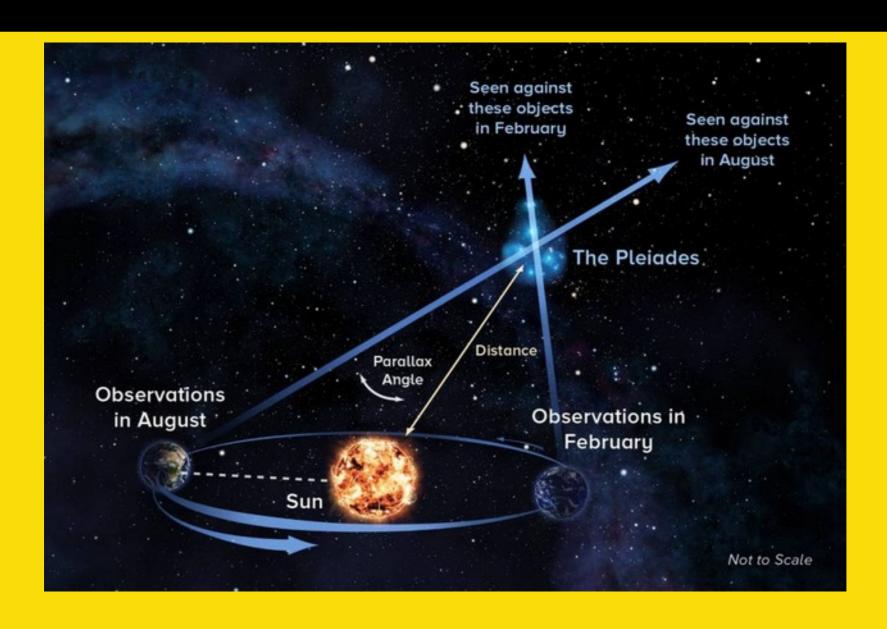
Imagestic

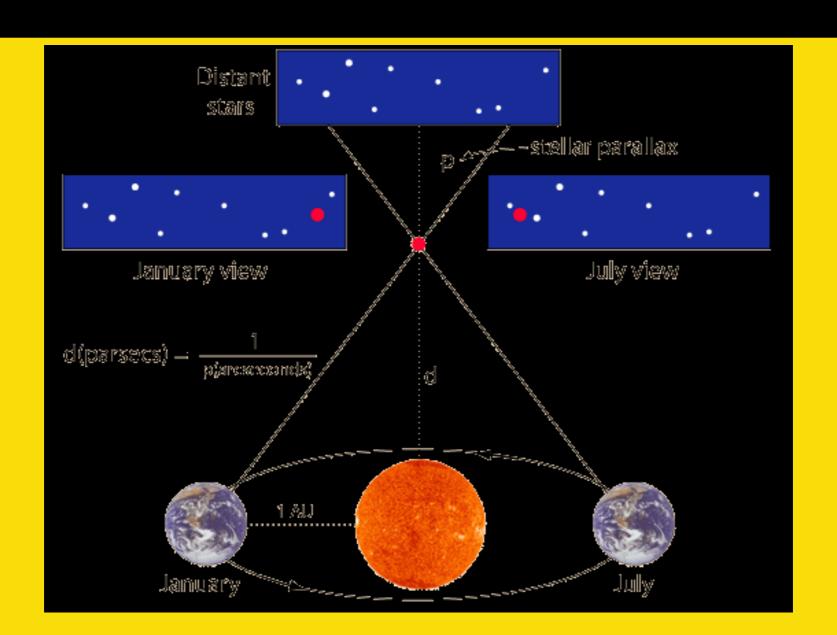






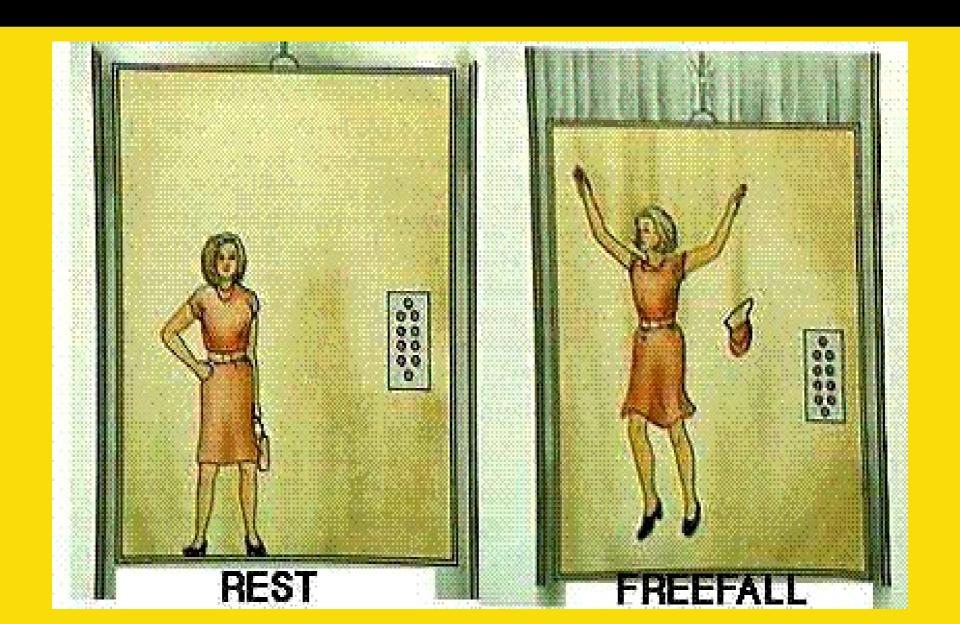
The parallax method used to determine the distance of nearby stellar objects is elucidated with binocular vision.





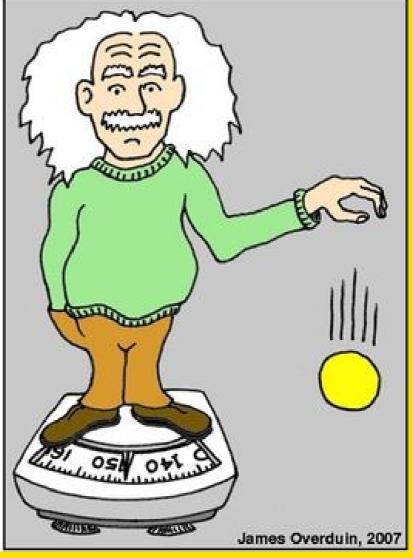


Thought experiments



Thought experiments



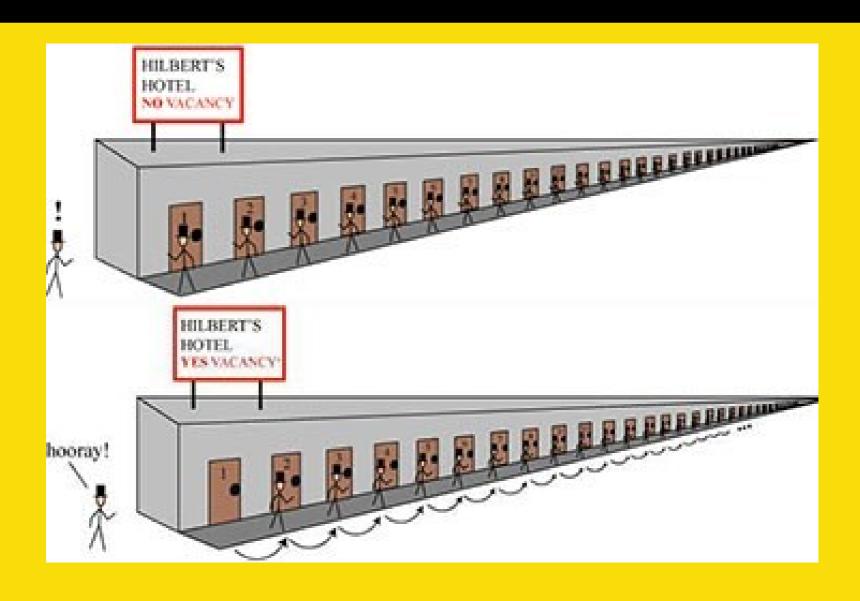


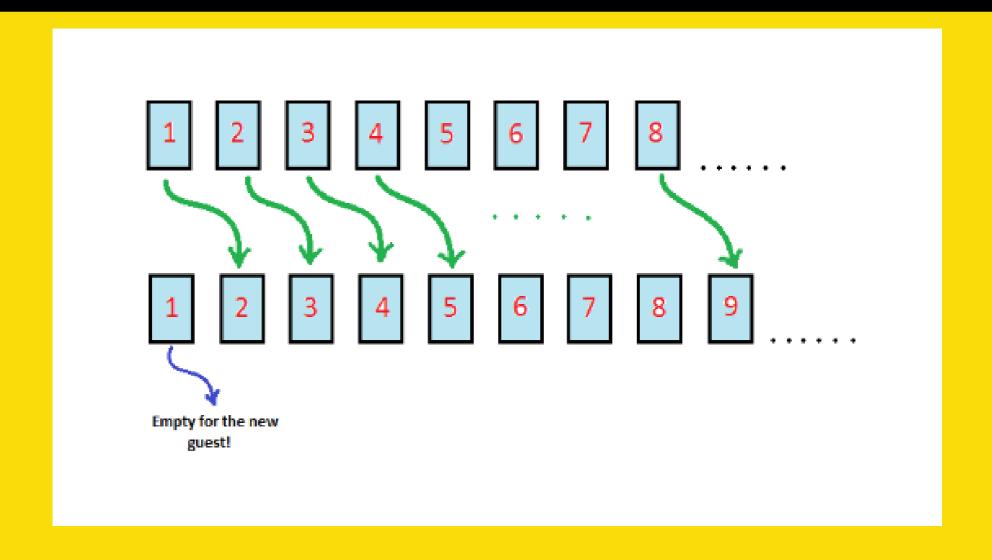
Space-station is falling towards the Earth!!!!



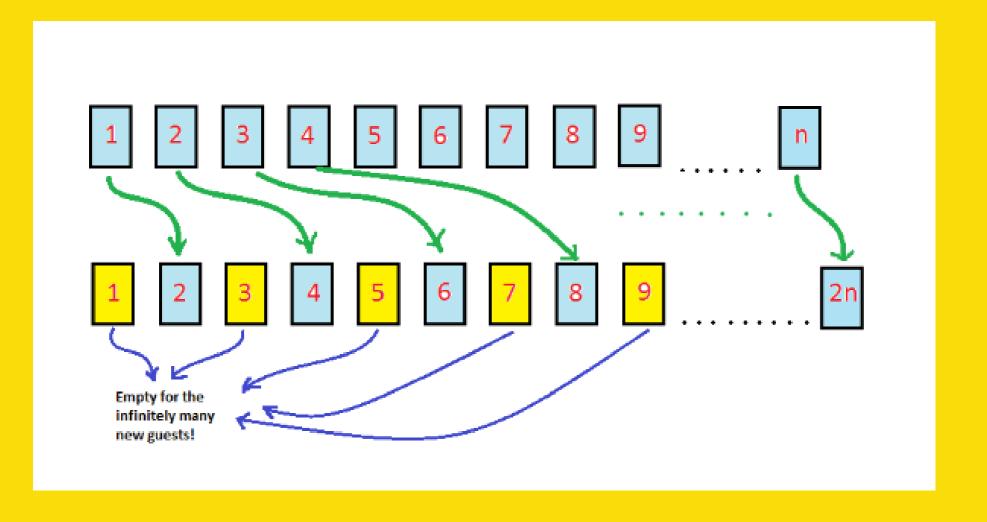
That is why they are floating!!!



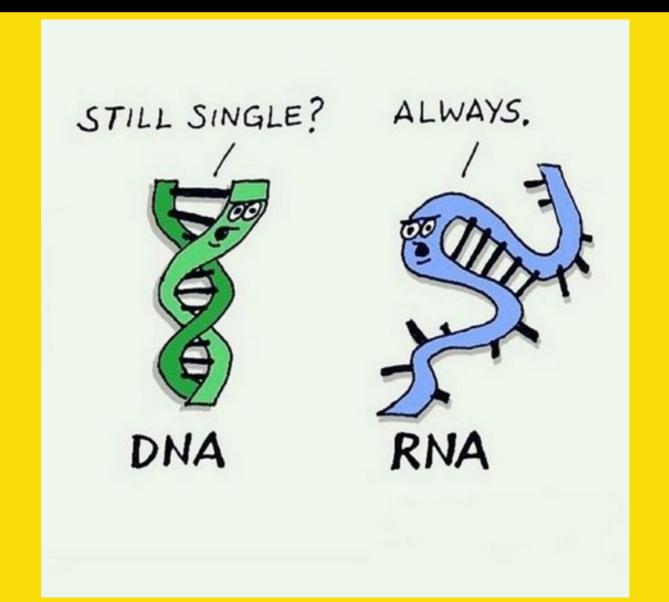




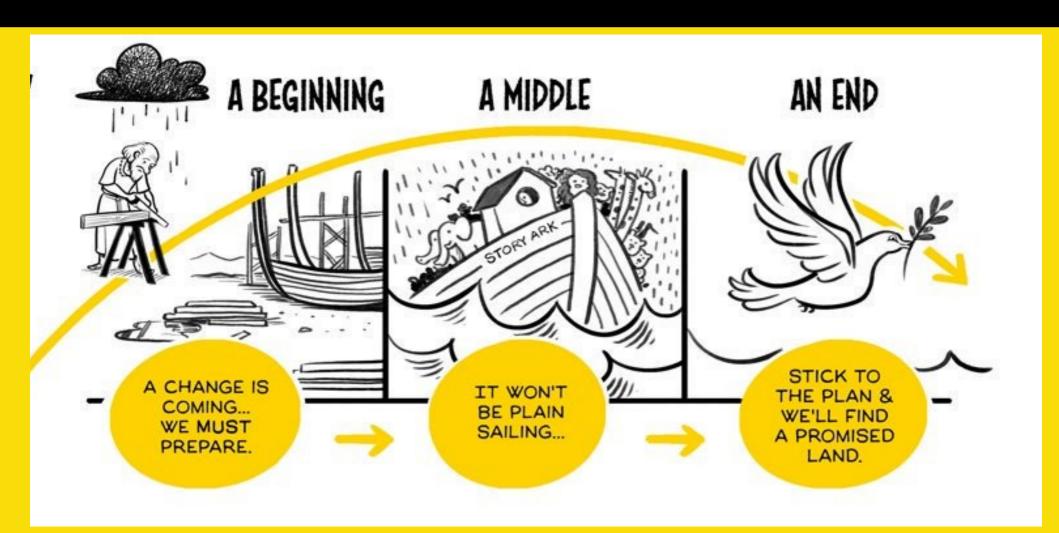




Humour is permitted



Three act strcuture



Three act structure



Spectacle



Story!

Story Mountain

Climax

This is when the problem reaches a high point!



Rising Action

This includes the events leading up to the main problem or conflict.

Falling Action

This is when the characters work to solve the problem or conflict.

Background

This includes the introduction of characters and setting.

Resolution

This is how things end up in the story.

Mission

STORY/ SPECTACLE with a difference!

- 1."bulb in the head"- that is not just emotion but tickling the brain
- 2. known to unknown
- 3. simple but not simpler